



Marvell® Product Selector Guide | January 2009

TABLE OF CONTENTS

SWITCHING	2-8
GATEWAYS	9
PCI BRIDGES	10
TRANSCEIVERS	11-12
ETHERNET CONTROLLERS	13
SAS/SATA STORAGE	14-15
SYSTEM CONTROLLERS	16-17
EMBEDDED PROCESSORS	18-19
APPLICATION PROCESSORS	20-22
VIDEO PROCESSORS	23
POWER MANAGEMENT	24-25
ABOUT MARVELL	26

DX Series Packet Processors	Part Numbers	Number of Ports	Type	Port Configuration	VLAN Support	PCL Support	MAC Size	Routing	Traffic Management	Trunk Groups	MPLS	Uplink	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
Prester-DX106-LKJ 10-Port Gigabit Ethernet Packet Processor	98DX106-LKJ-xx	10	Layer 2+ SecureSmart	SGMII	256 (4K)	Yes	8K	N/A	Yes	8 groups 8 ports each	N/A	N/A	0.15µm	14mm x 20mm	128-LQFP	Yes	DB-DX107-10G
Prester-DX106 10-Port Gigabit Ethernet Packet Processor	98DX106-xx	10	Layer 2+ SecureSmart	SGMII	256 (4K)	Yes	8K	N/A	Yes	8 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX107-48F4G
Prester-DX107-LKJ 10-Port Gigabit Ethernet Packet Processor	98DX107-LKJ-xx	10	Layer 3 Managed	SGMII	4K	Yes	8K	Yes	Yes	8 groups 8 ports each	N/A	N/A	0.15µm	14mm x 20mm	128-LQFP	Yes	DB-DX107-10G
Prester-DX107 10-Port Gigabit Ethernet Packet Processor	98DX107-xx	10	Layer 3 Managed	SGMII	4K	Yes	8K	Yes	Yes	8 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX107-48F4G
Prester-DX160 16-Port Gigabit Ethernet Packet Processor	98DX160-xx	16	Layer 2 Managed	SGMII	256 (4K)	N/A	8K	N/A	N/A	31 groups 8 port each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX240-24G
Prester-DX161 16-Port Gigabit Ethernet Packet Processor	98DX161-xx	16	Layer 2 Unmanaged	SGMII	N/A	N/A	8K	N/A	N/A	N/A	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX241-24GU
Prester-DX162 16-Port Gigabit Ethernet Packet Processor	98DX162-xx	16	Layer 2 WebSmart	SGMII	256 (4K)	N/A	8K	N/A	N/A	7 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX242-24G
Prester-DX163 Gigabit Ethernet Packet Processor	98DX163-xx	16	Layer 2+ SecureSmart	SGMII	256 (4K)	Yes	8K	N/A	Yes	32 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX243-24G
Prester-DX166 16-Port Gigabit Ethernet Packet Processor	98DX166-xx	16	Layer 2+ Managed	SGMII	4K	Yes	16K	N/A	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX246-24G
Prester-DX167 16-Port Gigabit Ethernet Packet Processor	98DX167-xx	16	Layer 3 Managed	SGMII	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX247-24G
Prester-DX240 24-Port Gigabit Ethernet Packet Processor	98DX240-xx	24	Layer 2 Managed	SGMII	256 (4K)	N/A	8K	N/A	N/A	31 groups 8 port each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX240-24G
Prester-DX241 24-Port Gigabit Ethernet Packet Processor	98DX241-xx	24	Layer 2 Unmanaged	SGMII	N/A	N/A	8K	N/A	N/A	N/A	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX241-24GU
Prester-DX242 24-Port Gigabit Ethernet Packet Processor	98DX242-xx	24	Layer 2 WebSmart	SGMII	256 (4K)	N/A	8K	N/A	N/A	7 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA		RD-DX242-24G
Prester-DX243 24-Port Gigabit Ethernet Packet Processor	98DX243-xx	24	Layer 2+ SecureSmart	SGMII	256 (4K)	Yes	8K	N/A	Yes	32 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX243-24G

For more information about switching products, visit: www.marvell.com/products/switching

DX Series Packet Processors (continued)	Part Numbers	Number of Ports	Type	Port Configuration	VLAN Support	PCL Support	MAC Size	Routing	Traffic Management	Trunk Groups	MPLS	Uplink	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
Prester-DX246 24-Port Gigabit Ethernet Packet Processor	98DX246-xx	24	Layer 2+ Managed	SGMII	4K	Yes	16K	N/A	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX246-24G
Prester-DX247 24-Port Gigabit Ethernet Packet Processor	98DX247-xx	24	Layer 3 Managed	SGMII	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	31mm x 31mm	458-HSBGA	Yes	RD-DX247-24G
Prester-DX249 24-Port Gigabit Ethernet with 2 HX ports Packet Processor	98DX249-xx	26	Layer 2+ SecureSmart	SGMII	256 (4K)	Yes	8K	N/A	Yes	32 groups 8 ports each	N/A	2 ports 5G each	0.15µm	31mm x 31mm	480-HSBGA		DB-DX249-24G-2HX
Prester-DX250 24-Port Gigabit Ethernet Packet Processor	98DX250-xx	24	Layer 2+ Managed	SGMII	4K	Yes	16K	N/A	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	37.5mm x 37.5mm	788-HSBGA	Yes	DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX253 24-Port Gigabit Ethernet Packet Processor	98DX253-xx	24	Layer 3 Managed	SGMII	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	N/A	N/A	0.15µm	37.5mm x 37.5mm	788-HSBGA	Yes	DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX260 24-Port Gigabit Ethernet with 2 HGS ports Packet Processor	98DX260-xx	26	Layer 2+ Managed	24 SGMII 2 XAUI	4K	Yes	16K	N/A	Yes	127 groups 8 ports each	N/A	2 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX262 24-Port Gigabit Ethernet with 2 HGS ports Packet Processor	98DX262-xx	26	Layer 2+ SecureSmart	24 SGMII 2 XAUI	256 (4K)	Yes	8K	N/A	Yes	32 groups 8 ports each	N/A	2 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX263 24-Port Gigabit Ethernet with 2 HGS ports Packet Processor	98DX263-xx	26	Layer 3 Managed	24 SGMII 2 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	N/A	2 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX269 24-Port Gigabit Ethernet with 2 HX/HGS ports Packet Processor	98DX269-xx	27	Layer 2+ SecureSmart	24 SGMII 2 HX/XAUI	256 (4K)	Yes	8K	N/A	Yes	32 groups 8 ports each	N/A	3 ports 5G/12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX269-24G-2HX-IB
Prester-DX270 24-Port Gigabit Ethernet with 3 HGS ports Packet Processor	98DX270-xx	27	Layer 2+ Managed	24 SGMII 3 XAUI	4K	Yes	16K	N/A	Yes	127 groups 8 ports each	N/A	3 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX273 24-Port Gigabit Ethernet with 3 HGS ports Packet Processor	98DX273-xx	27	Layer 3 Managed	24 SGMII 3 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	N/A	3 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX273-24G3XG RD-DX273-48G2XG
Prester-DX125 12-Port Gigabit Ethernet Packet Processor	98DX125-xx	12	Layer 3+ Managed	12 SGMII	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	3 ports 12G each	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG
Prester-DX145 12-Port Gigabit Ethernet with 2 HGS ports Packet Processor	98DX145-xx	14	Layer 3+ Managed	12 SGMII 2 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG RD-DX275-48G2XG
Prester-DX255 24-Port Gigabit Ethernet Packet Processor	98DX255-xx	24	Layer 3+ Managed	24 SGMII	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	N/A	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG

For more information about switching products, visit: www.marvell.com/products/switching

DX Series Packet Processors (continued)	Part Numbers	Number of Ports	Type	Port Configuration	VLAN Support	PCL Support	MAC Size	Routing	Traffic Management	Trunk Groups	MPLS	Uplink	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
Prester-DX265 24-Port Gigabit Ethernet with 2 HGS ports Packet Processor	98DX265-xx	26	Layer 3+ Managed	24 SGMII/2 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG RD-DX275-48G2XG
Prester-DX275 24-Port Gigabit Ethernet with 3 HGS ports Packet Processor	98DX275-xx	27	Layer 3+ Managed	24 SGMII/3 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	3	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG RD-DX273-48G2XG
Prester-DX285 24-Port Gigabit Ethernet with 4 HGS ports Packet Processor	98DX285-xx	28	Layer 3+ Managed	24 SGMII/4 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	4	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG RD-DX275-48G2XG
Prester-DX804 4-Port 10Gigabit Ethernet/ HGS ports Packet Processor	98DX804-xx	4	Layer 3+ Managed	4 XAUI	4K	Yes	16K	Yes	Yes	127 groups 8 ports each	MPLS-LER	4	0.15µm	37.5mm x 37.5mm	788-HSBGA		DB-DX275-24G3XG RD-DX275-48G2XG
Prester-DX5124 24-Port Gigabit Ethernet Packet Processor	98DX5124-xx	24	Layer 3+ Managed	SGMII	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	N/A	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5126 24-Port Gigabit Ethernet with 2 10GE ports Packet Processor	98DX5126-xx	26	Layer 3+ Managed	24 SGMII/2 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5127 24-Port Gigabit Ethernet with 2 10GE/HGS2 ports Packet Processor	98DX5127-xx	26	Layer 3+ Managed	24 SGMII/2 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5128 24-Port Gigabit Ethernet with 4 10GE ports Packet Processor	98DX5128-xx	28	Layer 3+ Managed	24 SGMII/4 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	4	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5129 24-Port Gigabit Ethernet with 2 10GE ports and 2 10GE/HGS2 ports Packet Processor	98DX5129-xx	28	Layer 3+ Managed	24 SGMII/4XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	4	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5151 4-Port Gigabit Ethernet/2.5Gigabit Ethernet with 2 10GE ports Packet Processor	98DX5151-xx	6	Layer 3+ Managed	SGMII/2.5GE	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5152 8-Port Gigabit Ethernet/2.5Gigabit Ethernet with 2 10GE ports Packet Processor	98DX5152-xx	10	Layer 3+ Managed	24 SGMII/2.5GE 2 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5154 16-Gigabit Ethernet/2.5Gigabit Ethernet with 10GE ports Packet Processor	98DX5154-xx	18	Layer 3+ Managed	24 SGMII/2.5GE 2 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5156 24-Port Gigabit Ethernet/2.5Gigabit Ethernet with 2 10GE ports Packet Processor	98DX5156-xx	26	Layer 3+ Managed	24 SGMII/2.5GE 2 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	2	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Prester-DX5157 24-Port Gigabit Ethernet/2.5Gigabit Ethernet with 2 10GE and 2 10GE/ HGS2 ports Packet Processor	98DX5157-xx	28	Layer 3+ Managed	24 SGMII/2.5GE 4XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	4	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS

For more information about switching products, visit: www.marvell.com/products/switching

DX Series Packet Processors (continued)	Part Numbers	Number of Ports	Type	Port Configuration	VLAN Support	PCL Support	MAC Size	Routing	Traffic Management	Trunk Groups	MPLS	Uplink	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
Presteria-DX8108 8-Port 10Gigabit Ethernet Packet Processor	98DX8108-xx	8	Layer 3+ Managed	8 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	8	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS
Presteria-DX8110 10-Port 10Gigabit Ethernet Packet Processor	98DX8110-xx	10	Layer 3+ Managed	10 XAUI	4K	Yes	32K	Yes	Yes	127 groups 8 ports each	MPLS-LER	N/A	90nm	35.0mmx35.0mm	1138-FCBGA		DB-DX3-6XG-4HGS RD-DX3-48GE-4HGS

EX Series Packet Processors	Part Numbers	Number of Ports	Type	Port Configuration	VLAN Support	PCL Support	MAC Size	Routing	Traffic Management	Trunk Groups	MPLS	Uplink	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
Presteria-EX115 48-Port Fast Ethernet + 4 GE Packet Processor	98EX115-xx	52	L2/L3/L4 Switching with L2-L4 PCL	48 SSMII 4 RGMII	4K	1K TCAM	16K	Internal: 4K External: 256 K	Yes	7 groups 4 ports each	N/A	16G	0.15µm	40mm x 40mm	1044-HSBGA		DB-EX115-12GS
Presteria-EX116 48-Port Fast Ethernet + 4 GE IPv6 Enabled Packet Processor	98EX116-xx	52	IPv6 Enabled L2/L3/L4 Switching with L2-L4 PCL	48 SSMII 4 RGMII	4K	2K TCAM	16K	Internal: 4K External: 256 K	Yes	31 groups 8 ports each	N/A	16G	0.15µm	40mm x 40mm	1044-HSBGA		DB-98EX116-12G8245
Presteria-EX125 12-Port Gigabit Ethernet Packet Processor	98EX125-xx	12	L2/L3/L4 Switching with L2-L4 PCL	12 RGMII	4K	1K TCAM	16K	Internal: 4K External: 256 K	Yes	31 groups 8 ports each	N/A	16G	0.15µm	40mm x 40mm	1044-HSBGA		DB-EX125-12GS
Presteria-EX126 12-Port Gigabit Ethernet IPv6 Enabled Packet Processor	98EX126-xx	12	IPv6 Enabled L2/L3/L4 Switching with L2-L4 PCL	12 RGMII	4K	2K TCAM	16K	Internal: 4K External: 256 K	Yes	31 groups 8 ports each	N/A	16G	0.15µm	40mm x 40mm	1044-HSBGA		DB-98EX126-12G8245 DB-98EX126-12G750
Presteria-EX136 10 Gigabit Ethernet IPv6 Enabled Packet Processor	98EX136-xx	1	IPv6 Enabled L2/L3/L4 Switching with L2-L4 PCL	1 XAUI	4K	2K TCAM	16K	Internal: 4K External: 256 K	Yes	31 groups 8 ports each	N/A	16G	0.15µm	40mm x 40mm	1044-PBGA		DB-EX136-XG DB-EX136-XG915

For more information about switching products, visit: www.marvell.com/products/switching

Gigabit Ethernet MAC Controllers	Part Numbers	Number of Ports	Port Configuration	MAC Speed	Uplink Port	Jumbo Frames	Process	Package Size	# Pins	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers
Presteria-MV82104-Cx 4x1 GE Gigabit Ethernet MAC Controller	MV82104-Cx	4	SGMII	10/100/1000 Mbps	SPI 4.2	Yes	150nm	35mm x 35mm	672	HSBGA		1.0mm	
Presteria-MV82110-Cx 10x1 GE Gigabit Ethernet MAC Controller (SGMII <-> SPI-4.2)	MV82110-Cx	10	SGMII	10/100/1000 Mbps	SPI 4.2	Yes	150nm	35mm x 35mm	672	HSBGA		1.0mm	
Presteria-MV82210-Cx 1x10 GE Gigabit Ethernet MAC Controller (XAUI <-> SPI-4.2)	MV82210-Cx	1	XAUI	10 Gbps	SPI 4.2	Yes	150nm	35mm x 35mm	672	HSBGA		1.0mm	

Secure MAC/PHY	Part Numbers	Number of Ports	Port Configuration	MAC Speed	Uplink Port	Jumbo Frames	Process	Package Size	# Pins	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers
Presteria X2220 Integrated 10GbE XAUI/XFI Secure MAC/PHY with LinkCrypt™ technology	98X2220	4	XAUI/XFI	10 Gbps	XAUI	Yes	150nm	21mm x 21mm	400	FCBGA		1.0mm	

Link Street Fast Ethernet Switches	Part Numbers	Number of Ports	Port Configuration	Virtual Cable Tester® Support	100BASE-FX Support	MAC Size	Port-Based VLANs	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	SNMP, RMON Network Management Support	Power	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
88E6031 3-Port Fast Ethernet Switch	88E6031	3	2 PHYs + 1 MII or 1 PHY + 2 MII	Yes	Yes: 1 PHY Port	1K	Yes	Yes	16	Yes	No	0.4W	0.15-Micron	14mm x 20mm	128-LQFP		DB-88E6061-1
88E6035 3-Port Fast Ethernet Switch	88E6035	3	2 PHYs + 1 MII or 1 PHY + 2 MII	Yes	Yes: 1 PHY Port	1K	Yes	Yes	64	Yes	Yes	0.4W	0.15-Micron	14mm x 20mm	128-LQFP		DB-88E6065-1
88E6060 6-Port Fast Ethernet Switch	88E6060	6	5 PHYs + 1 MII or 4 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	1K	Yes	No	0	No	No	0.7W	0.15-Micron	14mm x 20mm	128-PQFP	Yes	DB-88E6060-1
88E6061 6-Port Fast Ethernet Switch	88E6061	6	5 PHYs + 1 MII or 4 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	1K	Yes	Yes	16	Yes	No	0.7W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6061-1
88E6061B 6-Port Fast Ethernet Switch	88E6061B	6	5 PHYs + 1 MII or 4 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	1K	Yes	Yes	16	Yes	No	0.7W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6061B-1

For more information about switching products, visit: www.marvell.com/products/switching

Link Street Fast Ethernet Switches (continued)	Part Numbers	Number of Ports	Port Configuration	Virtual Cable Tester ^a Support	100BASE-FX Support	MAC Size	Port -Based VLANs	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	SNMP, RMON Network Management Support	Power	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
88E6063 7-Port Fast Ethernet Switch	88E6063	7	5 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	2K	Yes	Yes	16	Yes	Yes	0.9W	0.15-Micron	14mm x 20mm	128-PQFP	Yes	DB-88E6063-1
88E6065 6-Port Fast Ethernet Switch	88E6065	6	5 PHYs + 1 MII or 4 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	1K	Yes	Yes	64	Yes	Yes	0.7W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6065-1
88E6065B 6-Port Fast Ethernet Switch	88E6065B	6	5 PHYs + 1 MII or 4 PHYs + 2 MII	Yes	Yes: 2 PHY Ports	1K	Yes	Yes	64	Yes	Yes	0.7W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6065B-1
88E6083 10-Port Fast Ethernet Switch	88E6083	10	8 PHYs + 2 MII	Yes	Yes: 8 PHY Ports	2K	Yes	Yes	16	Yes	Yes	1.4W	0.15-Micron	24mm x 24mm	216-LQFP	Yes	RD-88E6083-1
88E6085 10-Port Fast Ethernet Switch	88E6085	10	8 PHYs + 2 MII	Yes	No	2K	Yes	Yes	64	Yes	Yes	1.2W	0.15-Micron	20mm x 20mm	176 TQFP	Yes	DB-88E6085-1

Link Street Fast + Gigabit Ethernet Switches	Part Numbers	Number of Ports	Port Configuration	Virtual Cable Tester ^a Support	1000 BASE-X Support	MAC Size	Port -Based VLANs	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	SNMP, RMON Network Management Support	Power	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
88E6045 4FE+2GE Ethernet Switch	88E6045	6	4 FE PHYs + GMII/SGMII	Yes on FE ports		1K	Yes	Yes	64	Yes	Yes	1.0W	0.15-Micron	20mm x 20mm	176 TQFP		DB-88E6095-8F3GC
88E6046 4FE+2GE Ethernet Switch	88E6046	6	4 FE PHYs + GMII/RGMII/SGMII	Yes on FE ports		1K	Yes	Yes	64	Yes	Yes	1.0W	0.15-Micron	20mm x 20mm	176 TQFP	Yes	DB-88E6046-1
88E6092 8FE+3GE Ethernet Switch	88E6092	11	8 FE PHYs + GMII/SGMII	Yes on FE ports		8K	Yes	Yes	256	Yes	Yes	1.5W	0.15-Micron	20mm x 20mm	176 TQFP		DB-88E6095-8F3GC
88E6095 8FE+3GE Ethernet Switch	88E6095	11	8 FE PHYs + GMII/SGMII	Yes on FE ports		8K	Yes	Yes	256	Yes	Yes	1.5W	0.15-Micron	20mm x 20mm	176 TQFP	Yes	DB-88E6095-8F3GC
88E6095F 8FE+3GE Ethernet Switch	88E6095F	11	8 FE PHYs + GMII/SGMII	Yes on FE ports	Yes: 8 PHY Ports	8K	Yes	Yes	256	Yes	Yes	1.5W	0.15-Micron	24mm x 24mm	216-LQFP	Yes	DB-88E6095-8F3GC
88E6096 8FE+3GE Ethernet Switch	88E6096	11	8 FE PHYs + GMII/RGMII/SGMII	Yes on FE ports		8K	Yes	Yes	4096	Yes	Yes	1.5W	0.15-Micron	20mm x 20mm	176 TQFP		DB-88E6097-8F3GC
88E6097 8FE+3GE Ethernet Switch	88E6097	11	8 FE PHYs + GMII/RGMII/SGMII	Yes on FE ports		8K	Yes	Yes	4096	Yes	Yes	1.5W	0.15-Micron	20mm x 20mm	176 TQFP	Yes	DB-88E6097-8F3GC
88E6097F 8FE+3GE Ethernet Switch	88E6097F	11	8 FE PHYs + GMII/RGMII/SGMII	Yes on FE ports	Yes: 8 PHY Ports	8K	Yes	Yes	4096	Yes	Yes	1.5W	0.15-Micron	24mm x 24mm	216-LQFP	Yes	DB-88E6097-8F3GC

For more information about switching products, visit: www.marvell.com/products/switching

Link Street Gigabit Ethernet Switches	Part Numbers	Number of Ports	Port Configuration	Virtual Cable Tester [®] Support	1000 BASE-X Support	MAC Size	Port-Based VLANs	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	SNMP, RMON Network Management Support	Power	Process	Package Size	Package Type	I-Temp	Evaluation Board Part Numbers
88E6121 3-Port Gigabit Ethernet Switch	88E6121	3	2 GE PHYs + 1 GMII	Yes		1K	Yes	Yes	64	Yes	Yes	1.5W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6122-6G
88E6122 6-Port Gigabit Ethernet Switch	88E6122	6	2 GE PHYs + 3 SerDes + 1 GMII	Yes	Yes: 2 Ports	1K	Yes	Yes	64	Yes	Yes	2.0W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6122-6G
88E6123 3-Port Gigabit Ethernet Switch	88E6123	3	2 GE PHYs + 1 GMII/RGMII/ SerDes	Yes	Yes: 1 Port	1K	Yes	Yes	64	Yes	Yes	1.1W	90nm	14mm x 20mm	128-LQFP		DB-88E6123-1
88E6131 8-Port Gigabit Ethernet Switch	88E6131	8	3 GE PHYs + 4 SerDes + 1 GMII	Yes	Yes: 4 Ports	1K	Yes	Yes	256	Yes	Yes	2.7W	0.15-Micron	20mm x 20mm	144-LQFP	Yes	DB-88E6131-8G
88E6152 6-Port Gigabit Ethernet Switch	88E6152	6	6 SerDes or 5 SerDes + 1 GMII	N/A	Yes: 2 Ports	8K	Yes	Yes	256	Yes	Yes	1.2W	0.15-Micron	14mm x 20mm	128-LQFP		DB-88E6152-10G
88E6155 6-Port Gigabit Ethernet Switch	88E6155	6	6 SerDes or 5 SerDes + 1 GMII	N/A	Yes: 2 Ports	8K	Yes	Yes	256	Yes	Yes	1.2W	0.15-Micron	14mm x 20mm	128-LQFP		DB-88E6155-10G
88E6161 6-Port Gigabit Ethernet Switch	88E6161	6	5 GE PHYs + 1 GMII/RGMII/ SerDes or 4 GE PHYs + 2 GMII/RGMII/SerDes	Yes	Yes: 2 Ports	1K	Yes	Yes	64	Yes	Yes	2.5W	90nm	24mm x 24mm	216-LQFP	Yes	DB-88E6161-1
88E6165 6-Port Gigabit Ethernet Switch	88E6165	6	5 GE PHYs + 1 GMII/RGMII/ SerDes or 4 GE PHYs + 2 GMII/RGMII/SerDes	Yes	Yes: 2 Ports	8K	Yes	Yes	4096	Yes	Yes	2.5W	90nm	24mm x 24mm	216-LQFP	Yes	DB-88E6165-1
88E6182 10-Port Gigabit Ethernet Switch	88E6182	10	10 SerDes or 9 SerDes + 1 GMII	N/A	Yes: 3 Ports	8K	Yes	Yes	256	Yes	Yes	1.5W	0.15-Micron	14mm x 20mm	128-LQFP		DB-88E6182-10G
88E6185 10-Port Gigabit Ethernet Switch	88E6185	10	10 SerDes or 9 SerDes + 1 GMII	N/A	Yes: 3 Ports	8K	Yes	Yes	256	Yes	Yes	1.5W	0.15-Micron	14mm x 20mm	128-LQFP	Yes	DB-88E6185-10G

For more information about switching products, visit: www.marvell.com/products/switching

Link Street Fast Ethernet Gateways	Part Numbers	CPU	Cache	Memory	GPIO	Port Configuration	MAC Size	Port -Based VLANs	QoS IEEE 802.1p Priority, 4 Queues per Port	IEEE 802.1Q Dynamic VLANs Supported	IEEE 802.1D Spanning Tree Support	Power	Process	Package Size	Package Type	I-temp Available	Evaluation Board Part Numbers
88E6218 6-Port FE Gateway Router	88E6218	150MHz ARM®9 CPU	I&D 8K/8K 4-way	16/32-bit SDRAM	16	5 FE PHYs, 1 MII, 1 UART, 1 JTAG	1K	Yes	Yes	No	Yes	2.25W	0.15-Micron	24mm x 24mm	216 LQFP		RD-88E6218- SD-1
88E6218R 5-Port FE Gateway Router	88E6218R	150MHz ARM®9 CPU	I&D 8K/8K 4-way	16-bit SDRAM	9	5 FE PHYs, 1 UART, 1 JTAG	1K	Yes	Yes	No	Yes	2.25W	0.15-Micron	14mm x 20mm	128 LQFP		TBD

For more information about gateway products, visit: www.marvell.com

PCI-Express to PCI Bridges	Part Number	Lanes	Max Payload Size	Bus Interface	PCI Bus Type	Reverse Mode	PCI Masters	GPIO	Power	Process	Package Size	Package Type	I-Temp	Eval Board Part Number
88SB2211 PCI-Express to PCI Bridge	88SB2211	1	128 Bytes	PCIe to PCI	32-bit, 33MHz	Yes	5	8	0.7W	0.15 - Micron	14mm x 20mm	128 LQFP		DB-88SB2211-B-PCI2PEX DB-88SB2211-B-PEX2PCI

For more information about PCI bridge products, visit: www.marvell.com/products/switching

Gigabit Ethernet	LINE INTERFACES					MAC INTERFACES							FEATURES									
	Number of Ports	10/100/1000BASE-T	100BASE-FX	1000BASE-X	SGMII	MII	GMI	RGMII	SGMII	TBI	RTBI	SerDes	Internal Regulator (w/External PNP)	Integrated Passives	Virtual Cable Tester	Programmable LED	JTAG	125 MHz CLK_OUT	RoHS 6/6, Green*	Production	Package Type	I-Temp
Single-Port Devices																						
88E1111-BAB	1	X		X	X	X	X	X	X	X	X	X			X	X	X	X	R	X	117-BGA	Yes
88E1111-CAA	1	X		X	X	X	X	X	X	X	X	X			X	X	X	X	R	X	96-BCC	Yes
88E1111-RCJ	1	X		X	X	X	X	X	X	X	X	X			X	X	X	X	R	X	128-PQFP	
88E1112-NNC	1	X	X	X	X				X			X			X	X			R	X	64-QFN	Yes
88E1113-NNC	1		X	X					X			X			X	X			R	X	64-QFN	
88E1114-NNC	1	X							X			X			X	X			R	X	64-QFN	
88E1116R-NNC	1	X						X					X	X	X	X	X		R	X	64-QFN	
88E1118R-NNC	1	X						X					X	X	X	X	X	X	G	X	64-QFN	
88E1119R-NNW	1	X				X	X						X	X	X	X	X	X	G	X	72-QFN	
Dual-Port Devices																						
88E1121R-TFE	2	X						X					X	X	X	X	X		R	X	100-TQFP	
Quad-Port Devices																						
88E1141-BBT	4	X	X	X	X		X	X	X	X	X	X			X	X	X		R	X	388-HSBGA	
88E1143-BAT	4		X	X	X		X	X								X	X		R	X	364-PBGA	
88E1145-BBM	4	X	X	X	X		X	X	X	X	X	X			X	X	X		R	X	364-HSBGA	Yes
88E1240-BAM	4	X							X					X	X	X	X		R	X	196-TFBGA	
88E1240-TAH	4	X							X					X	X	X	X		G	X	176-TQFP	

* RoHS 6/6 + Halogen-Free

For more information about transceivers products, visit: www.marvell.com/products/transceivers

Fast Ethernet	LINE INTERFACES			MAC INTERFACES						FEATURES							
	Number of Ports	10/100BASE-T	100BASE-FX	MI	RMII	SMII	SSSMII	RGMI	DDR-SSSMII	Internal Regulator (w/External PNP)	Virtual Cable Tester	Programmable LED	JTAG	RoHS 6/6, Green*	Production	Package Type	I-Temp
Single-Port Devices																	
88E3015-NNP	1	X	X	X				X		X	X	X		R	X	56-QFN	
88E3016-NNC	1	X	X					X		X	X	X	X	R	X	64-QFN	
88E3018-NNC	1	X	X	X				X		X	X	X	X	R	X	64-QFN	Yes
88E3019-NAJ	1	X		X	X			X		X	X	X		G	X	32-QFN	
Octal-Port Devices																	
88E3082-BAR	8	X	X		X	X	X		X	X	X	X	X	R	X	224-TFBGA	
88E3083-LKJ	8	X	X			X	X		X	X	X	X	X	R	X	128-LQFP	

* RoHS 6/6 + Halogen-Free

	LINE INTERFACES			MAC INTERFACES		MODULES			FEATURES							
10 Gigabit Ethernet	Number of Ports	10GBASE-SR/ER/LR	10GBASE-SW/IE/LW	XAUJ	XGMII	XENPAK	X2	XFP	Programmable LED	JTAG	Reference Clock	RoHS 6/6	Production	Package Type	I-Temp	
	Single-Port Devices															
	1	X		X		X	X	X	X	X	156.25/159.375 MHz	X	X	256-TFBGA		
	1	X	X	X		X	X	X	X	X	156.25/159.375 MHz, 155.52 MHz (WIS)	X	X	256-TFBGA	Yes	
	1	X			X			X	X	X	156.25/159.375 MHz	X	X	256-TFBGA		
	1	X	X		X			X	X	X	156.25/159.375 MHz, 155.52 MHz (WIS)	X	X	256-TFBGA		
	XGXS Devices															
	1			X	X	X	X		X	X	62.5/125/156.25/159.375 MHz	X	X	256-TFBGA		
	2			X	X	X	X		X	X	62.5/125/156.25/159.375 MHz	X	X	448-PBGA		

For more information about transceivers products, visit: www.marvell.com/products/transceivers

MARVELL CONFIDENTIAL - UNAUTHORIZED DISTRIBUTION OR USE STRICTLY PROHIBITED

Ethernet Controllers	Part Number	Virtual Cable Tester Support	Bus Interface	Media Support	Integrated on Chip Buffer	Boot ROM Support	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers	Software
Yukon Fast Ethernet Controller	88E8040	Yes	x1 PCI Express	10/100 BASE-T Copper	3KB Rx 2KB Tx RAM	Yes	9mm x 9mm	64QFN		N/A	88E8040-xx-NNC2-C000	Drivers- Windows® 2000, XP/2003 and Vista/Server 2008 and Linux
Yukon Gigabit Ethernet Controller	88E8057	Yes	x1 PCI Express	10/100/1000 BASE-T Copper	16K B Rx 10K B Tx RAM	Yes	9mm x 9mm	64QFN		N/A	88E8057-xx-NNC2-C000	Drivers- Windows® 2000, XP/2003 and Vista/Server 2008 and Linux

For more information about ethernet controller products, visit: www.marvell.com/products/pconnn

MARVELL CONFIDENTIAL - UNAUTHORIZED DISTRIBUTION OR USE STRICTLY PROHIBITED

SATA Storage Controllers	Part numbers	Port Count	Bus Type	Queueing	Port Multiplier Support	SAS Expander Support	Flash	Target Mode	Marvell RAID Software	Power	Process	Package Size	Package Type	I-Temp	Ball Pitch	Eval Board Part Number
88SX6041 - PCI-X to 4 SATA 3Gb/s ports I/O Controller	88SX6041	4	PCI / PCI-X	Tag and Native Command	SATA II	No	Flash BIOS I/F	Yes	N/A	3W	0.15 - Micron	23mm x 23mm	338 PBGA		1.0mm	DB-88SX6081
88SX6081 - PCI-X to 8 SATA 3Gb/s ports I/O Controller	88SX6081	8	PCI / PCI-X	Tag and Native Command	SATA II	No	Flash BIOS I/F	Yes	N/A	3W	0.15 - Micron	23mm x 23mm	338 PBGA		1.0mm	DB-88SX6081
88SX6042 - PCI-X to 4 SATA 3Gb/s ports I/O Controller	88SX6042	4	PCI / PCI-X	Tag and Native Command	FIS-Based	No	Flash BIOS I/F	Yes	N/A	3W	0.15 - Micron	23mm x 23mm	338 PBGA		1.0mm	DB-88SX6042
88SX7042 - PCIe x4 to 1 SATA 3Gb/s port I/O Controller	88SX7042	4	PCI-Express x4	Tag and Native Command	FIS-Based	No	Flash BIOS I/F	Yes	N/A	3W	0.15 - Micron	19mm x 19mm	236 PBGA		1.0mm	DB-88SX7042
88SE6101 - PCIe x1 to 1 PATA Controller	88SE6101	1P	PCI-Express x1	Tag and Native Command	No	No	No	No	N/A	600mW	0.15 - Micron	9mm x 9mm	64 QFN		N/A	DB-88SE6101
88SE6111 - PCIe x1 to 1 SATA 3Gb/s port and 1 PATA I/O Controller	88SE6111	1S1P	PCI-Express x1	Tag and Native Command	FIS-Based	No	No	No	N/A	800mW	0.15 - Micron	9mm x 9mm	76 QFN		N/A	DB-88SE6121
88SE6121 - PCIe x1 to 2 SATA 3Gb/s ports and 1 PATA RAID Controller	88SE6121	2S1P	PCI-Express x1	Tag and Native Command	FIS-Based	No	No	No	RAID 0/1	1W	0.15 - Micron	9mm x 9mm	76 QFN		N/A	DB-88SE6121
88SE6145 - PCIe x1 to 4 SATA 3Gb/s ports and 1 PATA RAID Controller	88SE6145	4S1P	PCI-Express x1	Tag and Native Command	FIS-Based	No	Flash BIOS I/F	No	RAID 0/1	1.5W	0.15 - Micron	14mm x 14mm	100 TQFP		N/A	DB-88SE6145

SAS/SATA Storage Controllers	Part numbers	Port Count	Bus Type	I/O Processor	Queueing	SAS Expander Support	Flash	Target Mode	Marvell RAID Software	Power	Process	Package Size	Package Type	I-Temp	Ball Pitch	Eval Board Part Number
88SE6320 - PCIe x1 to 2 SAS/SATA 3Gb/s ports RAID Controller	88SE6320	2	PCI-Express x1	No	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1	2W	0.15 - Micron	16mm x 16mm	128 TQFP		N/A	DB-88SE6340
88SE6340 - PCIe x1 to 4 SAS/SATA 3Gb/s ports RAID Controller	88SE6340	4	PCI-Express x1	No	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1	3W	0.15 - Micron	16mm x 16mm	128 TQFP		N/A	DB-88SE6340
88SE6440 - PCIe x4 to 4 SAS/SATA 3Gb/s ports RAID Controller	88SE6440	4	PCI-Express x4	No	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	3W	0.15 - Micron	16mm x 16mm	128 TQFP		N/A	HA-VA2400s-R01vxx
88SE6445 - PCIe x4 to 4 SAS/SATA 3Gb/s ports I/O Controller	88SE6445	4	PCI-Express x4	No	Tag and Native Command	Yes	Flash BIOS I/F	Yes	N/A	3W	0.15 - Micron	16mm x 16mm	128 TQFP		N/A	HA-VA2400s-R01vxx
88SE6480 - PCIe x4 to 8 SAS/SATA 3Gb/s ports RAID Controller	88SE6480	8	PCI-Express x4	No	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	4W	0.15 - Micron	19mm x 19mm	324 TFBGA		1.0mm	DB-88SE6480
88SE6485 - PCIe x4 to 8 SAS/SATA 3Gb/s ports I/O Controller	88SE6485	8	PCI-Express x4	No	Tag and Native Command	Yes	Flash BIOS I/F	Yes	N/A	4W	0.15 - Micron	19mm x 19mm	324 TFBGA		1.0mm	DB-88SE6480
88RC8180 - Dual PCIe x4 to 8 SAS/SATA 3Gb/s ports Universal Storage Controller	88RC8180	8	Dual PCI-Express x4	1GHz	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1/10/5/6	5W	80 nm	31mm x 31mm	720 EDSHPGA		1.0mm	DB-88RC8180
88SE9480 - PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s ports RAID Controller	88SE9480	8	PCI-Express 2.0 x8	No	Tag and Native Command	Yes	Flash BIOS I/F	No	RAID 0/1/10/5	~7W	55 nm	23mm x 23mm	484 HSBGA		1.0mm	DB-88SE9480-FLX
88SE9485 - PCIe 2.0 x8 to 8 SAS/SATA 6Gb/s ports I/O Controller	88SE9485	8	PCI-Express 2.0 x8	No	Tag and Native Command	Yes	Flash BIOS I/F	Yes	N/A	~7W	55 nm	23mm x 23mm	484 HSBGA		1.0mm	DB-88SE9480-FLX

For more information about storage products, visit: <http://www.marvell.com/products/storage>

SAS Expander	Part numbers	Port Count	Data Rate	Power	Process	Package Size	Package Type	i-Temp	Eval Board Part Number
88SM8212 - 12-port 6Gb/s SAS Expander	88SM8212	12	SAS 6Gb/s	~ 5W	80 nm	17mm x 17mm	400 TFBGA		DB-88SM8212

SATA Port Multiplier/ Multiplexer	Part numbers	Port Count	Data Rate	Power	Process	Package Size	Package Type	i-Temp	Eval Board Part Number
88SM4140 - 1:4 Serial ATA 3Gb/s Port Multiplier	88SM4140	5	SATA 3Gb/s	1.67W	0.15 micron	14mm x 14mm	80 LQFP		DB-88SM4140
88SM4021 - 2:1 Serial ATA Fail-Over Multiplexer	88SM4021	3	SATA 1.5Gb/s	0.88W	0.18 micron	9mm x 9mm	48 TQFP		DB-88SM4021

SATA Bridge	Part numbers	Port Count	Data Rate	Power	Process	Package Size	Package Type	i-Temp	Eval Board Part Number
88SA8052 - SATA/PATA Bridge	88SA8052	Host or Device	SATA 3Gb/s to PATA 133	0.25W	0.15 micron	9mm x 9mm	64 QFN or TQFP	Yes	DB-88SA8052-D or DB-88SA8052-H
88SA8040 - SATA/PATA Bridge	88SA8040	Host or Device	SATA 1.5Gb/s to PATA 133	0.35W	0.18 micron	9mm x 9mm	64 QFN or TQFP	Yes	DB-88SA8040-D or DB-88SA8040-H

For more information about storage products, visit: www.marvell.com/products/storage

Discovery VI System Controllers	Part numbers	CPU Interface	Frequency	Memory	Device Support	I/O Support	On-Board SRAM	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
Discovery VI PowerPC System Controllers	MV64660	PowerPC 60x and MPX	240 MHz	DDR2 64/72- bits 533MHz Up to 16 GB	16-Bit, 166 MHz, 5 Chip Selects	1 x 32-Bit PCI-X 1 x 4 PCI-E, 1x4 OR 4x1 PCI-E 3 x GbE (2 x SGMII), 2 x UART, 2 x USB, 1x SATA	N/A	1.2V Core, 1.8V2.5V/3.3V I/O	0.15- Micron	35mm x 35mm	880-BGA		1.0mm	DB-64660A0-2MPC7448 DB-64660A0-MPC7448 DB-64660A0-IBM750CL DB-64660A0-IBM750FL DB-64660A0-IBM750GL	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x

Discovery V System Controllers	Part numbers	CPU Interface	Frequency	Memory	Device Support	I/O Support	On-Board SRAM	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
Discovery V PowerPC System Controllers	MV64560	PowerPC 60x and MPX	200 MHz	DDR/DDR2 64/72-bits 400MHz Up to 8 GB	16-Bit, 166 MHz, 5 Chip Selects	1 x 64-Bit PCI-X, 1 x 32-Bit PCI-X OR 1 x 4 PCI-E, 3 x GbE (2 x SGMII), 2 x UART, 2 x USB	N/A	1.2V Core, 1.8V2.5V/3.3V I/O	0.15- Micron	35mm x 35mm	840-BGA	Yes	1.0mm	DB-64560A0-IBM750GL DB-64560A0-IBM750FL DB-64560A0-2XMP7448 DB-64560A0-IBM750CXL DB-64560A0-MPC7447A DB-64560A0-MPC7448	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x

Discovery III System Controllers	Part numbers	CPU Interface	Frequency	Memory	Device Support	I/O Support	On-Board SRAM	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
Discovery III PowerPC System Controllers	MV64460	PowerPC 60x and MPX	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 x 64-Bit PCI-X 3 x GbE, 2 x MPSC	2 Mb	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA	Yes	1.0mm	DB-64460B1-IBM750GX-S DB-64460B1-MPC7447A DB-64460B1-MPC7448-S DB-64460B1-2XMP7447A-S	Low-Level VxWorks® and Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discover III PowerPC System Controllers	MV64461	PowerPC 60x and MPX	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	2 Mb	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA		1.0mm	Use Evaluation board for MV64460	VxWorks, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discover III PowerPC System Controllers	MV64462	PowerPC 60x and MPX	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	1 x 64-Bit PCI-X 1 x 32-Bit PCI-X 1 x GbE, 2 x MPSC	N/A	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA		1.0mm	Use Evaluation board for MV64460	VxWorks, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discover III MIPS System Controllers	MV64440	MIPS 64-Bit SysAD	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	2 Mb	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA		1.0mm	DB-64440B1-RM7000C	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks
Discover III MIPS System Controllers	MV64441	MIPS 64-Bit SysAD	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	2 x 32-Bit PCI-X 2 x GbE, 2 x MPSC	2 Mb	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA		1.0mm	Use Evaluation board for MV64440	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks
Discover III MIPS System Controllers	MV64442	MIPS 64-Bit SysAD	200 MHz	DDR 400 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	1 x 64-Bit PCI-X 1 x 32-Bit PCI-X 1 x GbE, 2 x MPSC	N/A	1.8V Core, 2.5V/ 3.3V I/O	0.15- Micron	35mm x 35mm	844-BGA		1.0mm	Use Evaluation board for MV64440	Low-Level VxWorks and Linux Drivers, Reference BSP - VxWorks

For more information about communications controller products, visit: www.marvell.com/products/communication

Discovery LT System Controllers	Part numbers	CPU Interface	Frequency	Memory	Device Support	I/O Support	On-Board SRAM	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
Discovery LT PowerPC System Controllers	MV64430	PowerPC 60x and MPX	166 MHz	DDR 333 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	1 x 64-Bit PCI- X 1 x GbE, 2 x MPSC	N/A	1.8V Core, 2.5V/ 3.3V I/O	0.15-Micron	35mm x 35mm	832-BGA		1.0mm	DB-64430-IBM750CXr DB-64430-IBM750FX DB-64430-IBM750GX	VxWorks®, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks
Discovery LT MIPS System Controllers	MV64420	MIPS 64- Bit SysAD	166 MHz	DDR 333 MHz, Up to 8 GB	32-Bit, 133 MHz, 5 Chip Selects	1 x 64-Bit PCI- X 1 x GbE, 2 x MPSC	N/A	1.8V Core, 2.5V/ 3.3V I/O	0.15-Micron	35mm x 35mm	832-BGA		1.0mm	DB-64420A0-RM7065C	VxWorks®, Linux Drivers, PMON/2000 (Opsycon), Reference BSP - Linux, VxWorks

For more information about system controllers products, visit: www.marvell.com/products/communication

Discovery Innovation Series	Part numbers	CPU Base Architecture	Number of Issues	Frequency	Cache	DDR Controller	I/O Support	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
MV78200 Embedded CPU	MV78200	ARMv5TE Dual Core	Dual Issue w/FPU	800 MHz, 1.0 GHz, 1.2 GHz	L1: 32K-I, 32K-D per core L2: 512K unified per core	32/64-bit DDR2-800 with ECC	4 x GbE 2 x PCI-E (1 x4 or 4 x1) 3 x USB, 4 x UART 2 x SATA 32 bit Device bus	1.0V Core, 1.1V CPU_Core 1.8V/2.5V/3.3V I/O	0.065-Micron	27mm x 27mm	655 FCBGA		1.0mm	DB-MV78200-A0	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x
MV78100 Embedded CPU	MV78100	ARMv5TE Single Core	Dual Issue w/FPU	800 MHz, 1.0 GHz, 1.2 GHz	L1: 32K-I, 32K-D L2: 512K unified	32/64-bit DDR2-800 with ECC	2 x GbE 2 x PCI-E (1 x4 or 4 x1) 3 x USB, 4 x UART 2 x SATA 32 bit Device bus	1.0V Core, 1.1V CPU_Core 1.8V/2.5V/3.3V I/O	0.065-Micron	27mm x 27mm	655 FCBGA		1.0mm	DB-MV78100-A0	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x
MV76100 Embedded CPU	MV76100	ARMv5TE Single Core	Dual Issue w/FPU	600 MHz, 800 MHz	L1: 32K-I, 32K-D L2: 256K unified	32-bit DDR2-800 with ECC	2 x GbE 2 x PCI-E [(1 x4 or 4 x1) + (1 x1)] 3 x USB, 4 x UART 1 x SATA 32 bit Device bus	1.0V Core, 1.1V CPU_Core 1.8V/2.5V/3.3V I/O	0.065-Micron	27mm x 27mm	655 FCBGA		1.0mm	DB-MV76100-A0	U-Boot (1.1.4), VxWorks 5.5/6.3, Linux 2.6.x

88F6000 Series	Part numbers	CPU base architecture	Cache	Frequency	Memory	Device Support	I/O Support	SATA Interface	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
88F6000 Series SoC for Networking and Storage	88F6281	ARMv5TE	L1 16K/16K 4 way L2 256K 4 way	1000/1200 /1500 Mhz	16bit DDR2 400Mhz, up to 2GB memory space	NAND/SPI Flash	PCIe x1, 2xGbE, 1x USB2.0, TWSI, 2xUART, I2S, S/P DIF, MPEG_TS, SDIO, 2x TDM, 50 GPIO	2xSATA	1.0V CPU, 3.3V I/O	65nm	19mm x 19mm	HSBGA		1.0mm	RD-88F6281-A-BGA	u-boot, Linux, vxWorks and others
88F6000 Series SoC for Networking and Storage	88F6192	ARMv5TE	L1 16K/16K 4 way L2 256K 4 way	800 Mhz	16 bit DDR2 200Mhz, up to 512 MB memory space	NAND/SPI Flash	PCIe x1, 2xGbE, 1x USB2.0, TWSI, 2xUART, I2S, S/P DIF, MPEG_TS, SDIO, 2xTDM, 36 GPIO	2xSATA	1.0V CPU, 3.3V I/O	65nm	24mm x 24mm	LQFP		0.4mm	RD-88F6192-A-QFP	u-boot, Linux, vxWorks and others
88F6000 Series SoC for Networking and Storage	88F6190	ARMv5TE	L1 16K/16K 4 way L2 256K 4 way	600Mhz	16 bit DDR2 200Mhz, up to 512MB memory space	NAND/SPI Flash	PCIe x1, 1xGbE, 1xFE, 1x USB2.0, TWSI, 2xUART, SDIO, 36 GPIO	1xSATA	1.0 CPU, 3.3V I/O	65nm	24mm x 24mm	LQFP		0.4mm	RD-88F6192-A-QFP	u-boot, Linux, vxWorks and others
88F6000 Series SoC for Networking and Storage	88F6180	ARMv5TE	L1 16K/16K 4 way L2 256K 4 way	600/800Mhz	16 bit DDR2 200Mhz, up to 512MB memory space	NAND/SPI Flash	PCIe x1, 1xGbE, 1x USB2.0, TWSI, 2xUART, I2S, S/P DIF, SDIO, 30 GPIO	No	1.0 CPU, 3.3V I/O	65nm	13mm x 13mm	HSBGA		0.8mm	DB-88F6180-A	u-boot, Linux, vxWorks and others

For more information about embedded processors products, visit: www.marvell.com/products/communication

Feroceon Series	Part numbers	CPU base architecture	Cache	Frequency	Memory	Device Support	I/O Support	SATA Interface	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Evaluation Board Part Numbers	Software
Feroceon SoC for Networking and Storage	88F5281	ARMv5TE/ HW VFP/ dual issue	I&D L1 32K/32K 1-way I / 4-way D	500Mhz /400Mhz	DDR1/DDR2 166/200Mhz, up to 1GB memory space	32Bit, 4 Chip Selects	PCIe x1, PCI/PCI- X, 1xGbe, 1x USB2.0, TWSI, 2xUART, 20 GPIO	No	1.4V / 1.2V CPU, 3.3V I/O	0.15- Micron	23mm x 23mm	426-pin (HSBGA)		1.0mm	RD-88F5281-D0-7042- 4XHDD	u-boot, Linux, vxWorks and others
Feroceon SoC for Networking and Storage	88F5182	ARMv5TE	I&D L1 32K/32K 1 way	500Mhz /400Mhz	DDR1/DDR2 166/200Mhz, up to 1GB memory space	16Bit, 166Mhz, 4 Chip Selects	PCIe x1, PCI, 1xGbe, 2x USB2.0, TWSI, 2xUART, 26 GPIO	2xSATA	1.4V / 1.2V CPU, 3.3V I/O	0.15- Micron	23mm x 23 mm	388-pin (PBGA)		1.0mm	RD-88F5182-A2-NAS-2- 1XHDD, RD-88F5182- A2-NAS-2-2XHDD, RD- 88F5182-A2-NAS-3- 1XHDD	u-boot, Linux, and others
Feroceon SoC for Networking and Storage	88F6183	ARMv5TE	I&D L1 32K/32K 1-way I / 4-way D	400Mhz	DDR2 200Mhz, 256 MB 16 bit	16Bit, 2 chip selects	PCIe x1, 1xGbe, 1x USB2.0, TWSI, 1xUART, S/PDIF, I2S, SDIO 32 GPIO	No	1.0V CPU, 3.3V I/O	90nm	15mm x 15mm	249-pin (TFBGA)	Yes	0.8mm	RD-88F6183-AP-GE	u-boot, Linux, vxWorks and others
Feroceon SoC for Networking and Storage	88F5082	ARMv5TE	I&D L1 32K/32K 1 way	333Mhz	DDR1/DDR2 166/200Mhz, 0.5GB 16bits	16Bit, 4 Chip Selects	PCIe x1, 1xGbe, 2x USB2.0, TWSI, 2xUART, 26 GPIO	1xSATA	1.2V CPU, 3.3V I/O	0.15- Micron	23mm x 23 mm	388-pin (PBGA)		1.0mm	RD-88F5182-A2-NAS-2- 1XHDD,	u-boot, Linux and others

For more information about embedded processors products, visit: www.marvell.com/products/communication

Application Processors	Part number	Frequency	Boot Configuration	Device support	Security Support	I/O Voltage	Process	Package Size	Package Type	I-Temp (Note 1)	Ball Pitch	Ordering Part Number	Software	Special Note
PXA300	88AP300	624MHz	X16 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP300-A1-BGK2C624-T161	Linux, Windows CE, Windows Mobile	
PXA300	88AP300	624MHz	X8 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP300-A1-BGK2C624-T162	Linux, Windows CE, Windows Mobile	
PXA300	88AP300	624MHz	X16 NOR	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP300-A1-BGK2C624-T163	Linux, Windows CE, Windows Mobile	
PXA300	88AP300	208MHz	X8 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP300-A1-BGK2C208-T164	Linux, Windows CE, Windows Mobile	
PXA303	88AP303	624MHz	X16 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	19x19 mm	discrete	*	0.8mm	88AP303-A1-BGF2C624-TN12	Linux, Windows CE, Windows Mobile	
PXA303	88AP303	624MHz	X8 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	19x19 mm	discrete	*	0.8mm	88AP303-A1-BGF2C624-TN22	Linux, Windows CE, Windows Mobile	
PXA303	88AP303	208MHz	X8 NAND	8 chip selects	no	1.8v - 3.3v	90 nm	19x19 mm	discrete	*	0.8mm	88AP303-A1-BGF2C208-TN22	Linux, Windows CE, Windows Mobile	
PXA303	88AP303	624MHz	X16 NOR	8 chip selects	no	1.8v - 3.3v	90 nm	19x19 mm	discrete	*	0.8mm	88AP303-A1-BGF2C624-TN32	Linux, Windows CE, Windows Mobile	
PXA303	88AP303	208MHz	X16 NOR	8 chip selects	no	1.8v - 3.3v	90 nm	19x19 mm	discrete	*	0.8mm	88AP303-A1-BGF2C208-TN32	Linux, Windows CE, Windows Mobile	
PXA302	88AP302	624MHz	auto-boot configuration	8 chip selects	no	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP302-A1BBGW1C624-TN02	Linux, Windows CE, Windows Mobile	
PXA310	88AP310	624MHz	auto-boot configuration	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP310-A2-BGK2C624-TN02	Linux, Windows CE, Windows Mobile	
PXA310	88AP310	624MHz	auto-boot configuration	8 chip selects	Yes, trusted	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP310-A2-BGK2C624-TS02	Linux, Windows CE, Windows Mobile	
PXA312	88AP312	624MHz	auto-boot configuration	8 chip selects	no	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP312-A2-BGW2C624-TN02	Linux, Windows CE, Windows Mobile	
PXA312	88AP312	624MHz	auto-boot configuration	8 chip selects	Yes, trusted	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP312-A2-BGW2C624-TS02	Linux, Windows CE, Windows Mobile	
PXA310	88AP310	806MHz	auto-boot configuration	8 chip selects	no	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP310-A2-BGK2C806-TN02	Linux, Windows CE, Windows Mobile	
PXA310	88AP310	806MHz	auto-boot configuration	8 chip selects	Yes, trusted	1.8v - 3.3v	90 nm	13x13 mm	discrete	*	0.5mm	88AP310-A2-BGK2C806-TS02	Linux, Windows CE, Windows Mobile	
PXA312	88AP312	806MHz	auto-boot configuration	8 chip selects	no	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP312-A2-BGW2C806-TN02	Linux, Windows CE, Windows Mobile	

* Note 1: Parts available in temperature range -25C to 85C

For more information about application processors products, visit: www.marvell.com/products/cellular/applications.jsp

Application Processors (continued)	Part number	Frequency	Boot Configuration	Device support	Security Support	I/O Voltage	Process	Package Size	Package Type	I-Temp (Note 1)	Ball Pitch	Ordering Part Number	Software	Special Note
PXA312	88AP312	806MHz	auto-boot configuration	8 chip selects	Yes, trusted	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP312-A2-BGW2C806-TS02	Linux, Windows CE, Windows Mobile	
PXA320	RTPXA320	624MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C624-641	Linux, Windows CE, Windows Mobile	low power
PXA320	RTPXA320	806MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C806-337	Linux, Windows CE, Windows Mobile	standard power
PXA320	RTPXA320	806MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C806-647	Linux, Windows CE, Windows Mobile	low power
PXA320	RTPXA320	624MHz	X16 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C624-640	Linux, Windows CE, Windows Mobile	low power
PXA320	RTPXA320	806MHz	X16 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C806-645	Linux, Windows CE, Windows Mobile	low power
PXA320	RTPXA320	806MHz	X16 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C806-646	Linux, Windows CE, Windows Mobile	standard power
PXA320	RTPXA320	624MHz	X8 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C624-642	Linux, Windows CE, Windows Mobile	low power
PXA320	RTPXA320	624MHz	X8 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C624-696	Linux, Windows CE, Windows Mobile	standard power
PXA320	RTPXA320	806MHz	X8 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	*	0.5mm	RTPXA320B2C806-643	Linux, Windows CE, Windows Mobile	standard power
PXA320	RTPXA320	806MHz	X8 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	14x14 mm	discrete	Yes	0.5mm	RTPXA320B2E806-644	Linux, Windows CE, Windows Mobile	standard power
PXA320	88AP322	624MHz	X16 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP322-B2-BGW1C624-TN12	Linux, Windows CE, Windows Mobile	low power
PXA320	88AP322	806MHz	X16 NAND	6 chip selects	no	1.8v - 3.3v	90 nm	15x15 mm	PoP	*	0.65mm	88AP322-B2-BGW1C806-TN12	Linux, Windows CE, Windows Mobile	low power
PXA270	RTPXA270	312MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	13x13 mm	discrete	*	0.5mm	RTPXA270C5C312	Linux, Windows CE, Windows Mobile	
PXA270	RTPXA270	416MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	13x13 mm	discrete	*	0.5mm	RTPXA270C5C416	Linux, Windows CE, Windows Mobile	
PXA270	RTPXA270	520MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	13x13 mm	discrete	*	0.5mm	RTPXA270C5C520	Linux, Windows CE, Windows Mobile	
PXA270	RTPXA270	624MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	13x13 mm	discrete	*	0.5mm	RTPXA270C5C624	Linux, Windows CE, Windows Mobile	

* Note 1: Parts available in temperature range -25C to 85C

For more information about application processors products, visit: www.marvell.com/products/cellular/applications.jsp

Application Processors (continued)	Part number	Frequency	Boot Configuration	Device support	Security Support	I/O Voltage	Process	Package Size	Package Type	I-Temp (Note 1)	Ball Pitch	Ordering Part Number	Software	Special Note
PXA270	NHPXA270	312MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	23x23 mm	discrete	*	1.0mm	NHPXA270C5C312	Linux, Windows CE, Windows Mobile	
PXA270	NHPXA270	416MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	23x23 mm	discrete	*	1.0mm	NHPXA270C5C416	Linux, Windows CE, Windows Mobile	
PXA270	NHPXA270	520MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	23x23 mm	discrete	*	1.0mm	NHPXA270C5C520	Linux, Windows CE, Windows Mobile	
PXA270	NHPXA270	312MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	23x23 mm	discrete	Yes	1.0mm	NHPXA270C5E312	Linux, Windows CE, Windows Mobile	
PXA270	NHPXA270	416MHz	X16 NOR	6 chip selects	no	1.8v - 3.3v	180 nm	23x23 mm	discrete	Yes	1.0mm	NHPXA270C5E416	Linux, Windows CE, Windows Mobile	

* Note 1: Parts available in temperature range -25C to 85C

For more information about application processors products, visit: www.marvell.com/products/cellular/applications.jsp

Digital Entertainment	Part numbers	Input ports	Output ports	OSD support	Embedded CPU	Memory Interface	External FLASH	Voltage	Process	Package Size	Package Type	I-Temp	Ball Pitch	Ordering Part Numbers
Kyoto Adaptive Digital Video Format Converter	88DE2710	3	2	External	None	32bit DDR1 @200Mhz	Not required	1.2V core, 3.3V/2.5V I/O	0.15-Micron	19mm x 19mm	324-BGA		1.0mm	88DE2710A1-BCY1C000

For more information about video processors products, visit: www.marvell.com/products/digitalentertainment/index.jsp

Synchronous Buck Regulator	Part numbers	I _{out} (Max)	I _{Q3} (I _{out} = 0)	V _{in}	TOP FET R _{DS(ON)} @ 5.0V	BOT FET R _{DS(ON)} @ 5.0V	Features	Package Type	I-Temp (Note 2)
88PG808-NAE1	88PG808-NAE1	0.5A	1.0mA	3.0V to 5.5V	120mΩ	70mΩ	1MHz, Shutdown	3x4 DFN-12	Yes
MVPG16-NAE1	MVPG16-NAE1	1.0A	1.0mA	3.0V to 5.5V	120mΩ	70mΩ	1MHz, Shutdown	3x4 DFN-12	Yes
88PG819-SAE1	88PG819-SAE1	1.2A	5.5mA	2.7V to 5.5V	120mΩ	80mΩ	2MHz, EN, OVP, SS, VSET Adjust	SO-8-EP	Yes
MVPG31-NAE1	MVPG31-NAE1	2.0A	1.0mA	3.0V to 5.5V	120mΩ	70mΩ	1MHz, Shutdown	3x4 DFN-12	Yes
88PG877-NFB1	88PG877-NFB1	5.0A	1.2mA	3.0V to 5.5V	9.5mΩ	7.5mΩ	1MHz, Enable, POR, OVP	3x4 QFN-18	Yes
88PH845-NFB1	88PH845-NFB1	3.0A	2.7mA	4.5V to 16V	70mΩ	35mΩ	Enable, PGood, OVP, SS, 500kHz	3x4 QFN-18	Yes

Synchronous Buck Regulator + LDO	Part numbers	I _{out} (Max)	I _{Q3} (I _{out} = 0)	V _{in}	TOP FET R _{DS(ON)} @ 5.0V	BOT FET R _{DS(ON)} @ 5.0V	Features	Package Type	I-Temp (Note 2)
MVPG15x-NAE1	MVPG15x-NAE1	1.0A	1.7mA	3.0V to 5.5V	120mΩ	70mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown	3x4 DFN-12	Yes
MVPG30x-NAE1	MVPG30x-NAE1	2.0A	1.7mA	3.0V to 5.5V	120mΩ	70mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown	3x4 DFN-12	Yes
88PG807x-NAM1	88PG807x-NAM1	0.5A	1.9mA	2.75V to 5.5V	67mΩ	21mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	3x3 QFN-16	Yes
88PG817x-NAM1	88PG817x-NAM1	1.0A	1.9mA	2.75V to 5.5V	67mΩ	21mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	3x3 QFN-16	Yes
88PG827x-NAM1	88PG827x-NAM1	1.6A	1.9mA	2.75V to 5.5V	67mΩ	21mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	3x3 QFN-16	Yes
88PG837x-NAM1	88PG837x-NAM1	2.0A	1.9mA	2.75V to 5.5V	67mΩ	21mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	3x3 QFN-16	Yes
88PG847x-NAM1	88PG847x-NAM1	3.0A	1.9mA	2.75V to 5.5V	67mΩ	21mΩ	LDO x Opt: B=3.3V, E = 2.5V 1MHz, Shutdown, POR, OVP	3x3 QFN-16	Yes

Note 2: Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

For more information about power management products, visit: www.marvell.com/products/power

Dual Synchronous Buck Regulators	Part numbers	I _{out} (Max)	I _Q 3 (I _{out} = 0)	V _{in}	TOP FET R _{DS(ON)} @ 5.0V	BOT FET R _{DS(ON)} @ 5.0V	Features	Package Type	I-Temp (Note 2)
88PG8204-NFE1	88PG8204-NFE1	0.75A/0.75A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	1MHz, Enable, Soft Start, POR, OVP	3x4 QFN-20	Yes
88PG8216-NFE1	88PG8216-NFE1	1.0A/1.5A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	1MHz, Enable, Soft Start, POR, OVP	3x4 QFN-20	Yes
88PG8226-NFE1	88PG8226-NFE1	1.5A/1.5A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	1MHz, Enable, Soft Start, POR, OVP	3x4 QFN-20	Yes
88PG8227-NFE1	88PG8227-NFE1	1.5A/2.0A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	1MHz, Enable, Soft Start, POR, OVP	3x4 QFN-20	Yes
88PG8237-NFE1	88PG8237-NFE1	2.0A/2.0A	2.1mA	2.75V to 5.5V	81mΩ	37mΩ	1MHz, Enable, Soft Start, POR, OVP	3x4 QFN-20	Yes

LDO 5x5mm QFN-5, 5 Leads	Part numbers	I _{out} (Max)	I _Q (I _{out} = 0A)	V _{dropout}	V _{IN} (V)	Output Voltage (V)	Features	I-Temp (Note 2)
88PL810-NAK1	88PL810-NAK1	1.0A	1.0mA	75mV	2.7V to 3.6V	1.44, 1.47, 1.50 , 1.53, 1.56, 1.59, 1.62, 1.65	Enable, Soft-Start	Yes
88PL815-NAK1	88PL815-NAK1	1.5A	1.2mA	155mV	2.7V to 3.6V	1.728, 1.764, 1.80 , 1.836, 1.872, 1.908, 1.944, 1.980	Enable, Soft-Start	Yes
88PL830-NAK1	88PL830-NAK1	3.0A	1.5mA	235mV	2.7V to 3.6V	2.40, 2.45, 2.50 , 2.55, 2.60, 2.65, 2.70, 2.75	Enable, Soft-Start	Yes
88PL8530-NAK1	88PL8530-NAK1	3.0A	400uA	235mV	2.5V to 5.5V	2.5V , 3.3V, 2.25V, 2.375V, 2.65V, 2.75V, 3.0V, 3.15V, 3.45V, 3.6V	Enable, Soft-Start	Yes

Note 2: Specifications over the -40C to 85C operating temperature ranges are assured by design, characterization, and correlation with statistical process controls.

For more information about power management products, visit: www.marvell.com/products/power

Key Corporate Facts

Founded:
1995

Stock Symbol:
MRVL (NASDAQ)

Patents:
More than 700

*Chairman, President and Chief
Executive Officer:*
Dr. Sehat Sutardja

Worldwide Employment:
Over 5,000

Net Revenues:
\$2,895 million (fiscal 2008,
ended February 2, 2008)

Marvell US Headquarters:
Marvell Semiconductor, Inc.
5488 Marvell Lane
Santa Clara, CA 95054
Phone: 408-222-2500

Website:
www.marvell.com

Market Leadership

- No. 1 Hard Disk Drive semiconductor supplier
- No. 1 Embedded WiFi semiconductor supplier
- No. 2 Ethernet semiconductor supplier
- No. 2 Applications processor supplier

ABOUT MARVELL

Founded in 1995, Marvell Technology Group is headquartered in Santa Clara, California and has more than 5,000 employees worldwide. International design centers are located in the U.S., Europe, Israel, Singapore and China. A leading fabless semiconductor company, Marvell ships over 250 million chips per quarter. Marvell's expertise in microprocessor architecture and digital signal processing, drives multiple platforms including high volume storage solutions, wired and wireless networking, video processing and cellular products. World class engineering and mixed-signal design expertise helps Marvell deliver critical building blocks to its customers, giving them the competitive edge to succeed in today's dynamic market.

KEY MARKETS

- **Storage Solutions:** Marvell is the market leader in data storage silicon solutions spanning consumer, mobile, desktop and enterprise market segments. The company's storage solutions enable customers to engineer high-volume products for hard disk drives, tape drives, optical disks, and solid state drives, as well as host adaptors and bridges.
- **Mobile Connectivity Solutions:** Marvell communications and applications processors provide full-featured, media-rich experiences to business users and consumers. Marvell processors deliver advanced integration, leading multimedia performance and superior power savings for a range of devices such as smart phones, mobile broadband-connected handhelds and portable navigation devices.
- **Enterprise Solutions:** Designed for networking and stand-alone applications, Marvell enterprise products include packet processors, switching, Ethernet transceivers and controllers, and system-on-chip solutions based on Sheeva™ CPU technology. Marvell enables reliable, resilient service delivery with industry leading performance for enterprise applications such as routers, switches, laser printers, media servers, point of service and network attached storage devices.
- **Consumer Solutions:** Through technologies that span WLAN, system controllers, power management, award-winning Qdeo™ video processing, PC connectivity, storage solutions and embedded CPUs, Marvell delivers a broad range of technologies for the digital home.
- **Green Technology:** Marvell is committed to developing and implementing green technology as both a supplier and user of technology to save energy and to help reduce our collective carbon footprint. With its DSP-based power factor correction (PFC) controllers, Marvell is using its power management expertise to take the lead in energy-efficient technology for AC/DC power supplies and notebook computer adapters.

THE MARVELL ADVANTAGE

Marvell products come with complete reference designs which include board layout designs, software, manufacturing diagnostic tools, documentation, and other items to assist customers with product evaluation and production. Marvell's worldwide field application engineers collaborate closely with customers to develop and deliver new leading-edge products for quick time-to-market. Marvell uses world-leading semiconductor foundry and packaging services to reliably deliver high-volume and low-cost total solutions. For more information, visit our web site at www.marvell.com.

Copyright © 2009. Marvell International Ltd. All rights reserved. Marvell, Moving Forward Faster, the Marvell logo, Alaska, AnyVoltage, DSP Switcher, Fastwriter, Feroceon, Libertas, Link Street, PHYAdvantage, Prestera, TopDog, Virtual Cable Tester, Yukon, and ZJ are registered trademarks of Marvell or its affiliates. CarrierSpan, LinkCrypt, Powered by Marvell Green PFC, Qdeo, QuietVideo, Sheeva, TwinD, and VCT are trademarks of Marvell or its affiliates.

Pn# Marvell_Product_Selector_Guide_Jan_2009_NDA_rev001